

**DUAL CURE COATING COMPOSITIONS HAVING  
IMPROVED SCRATCH RESISTANCE, COATED  
SUBSTRATES AND METHODS RELATED THERETO**

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**ABSTRACT**

Coating compositions formed from components including radiation and thermally curable material(s); curing agent(s) and a plurality of particles are provided, wherein each component is different. Also provided are multi-  
10 component composite coatings which include a cured basecoat deposited from a pigmented coating composition and a cured topcoat deposited from a topcoating composition. The multi-component composite coatings of the invention provide highly scratch resistant color-plus-clearcoatings.